

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

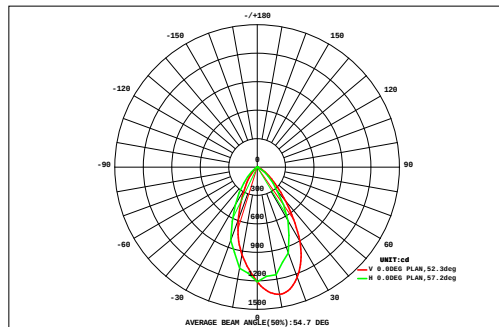
Maximum Intensity (Luminaire orientation as tested.)		1116.7 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	99.0V x 91.5H
	At 50% of Imax	56.7V x 52.3H
	At 90% of Imax	21.9V x 19.6H
Beam Flux	Total	999.4 lumens per klm.
	To 10% of Imax	924.5 lumens per klm.
	To 50% of Imax	553.4 lumens per klm.
	To 90% of Imax	98.9 lumens per klm.
Upward LOR		0.0 %
Downward LOR		99.9 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-06-07

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:241.5V I:0.1592A P:21.96W PF:0.5709 Lamp Flux:1218.75x1 lm		
NAME: 8.02.019.0086 60°LLS-OP-W30B-L12-DIM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:20240600016
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:55.51lm/W	
MODELLS-OP-W30B-L12-DIM	Imax(cd)	1361	
NOMINAL POWER(W)	24	AVAILABILITY(%)	92.6
RATED VOLTAGE(V)	242	Avai. FLUX(lm)	1129
NOMINAL FLUX(lm)	1218.75	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	1219
TEST VOLTAGE(V)	241.5	θ @50%(H,V)	52,57DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm				Φ t	Φ a
	72	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.04	0.12	0.21	0.27	0.26	0.22	0.14	0.05	0.01	0.00	0.00	1.34	0.00	
	64	0.00	0.00	0.00	0.00	0.00	0.11	0.34	0.60	0.85	1.04	1.11	1.05	0.87	0.62	0.36	0.15	0.02	0.00	7.12	0.00	
	56	0.00	0.00	0.00	0.01	0.18	0.52	1.00	1.57	2.13	2.53	2.62	2.38	1.90	1.33	0.80	0.39	0.13	0.01	17.5	5.06	
	48	0.00	0.00	0.00	0.11	0.49	1.11	1.99	3.09	4.24	5.05	5.18	4.59	3.52	2.37	1.38	0.69	0.25	0.04	34.1	27.1	
	40	0.00	0.00	0.02	0.32	0.94	1.96	3.50	5.53	7.66	9.08	9.20	8.00	5.93	3.77	2.08	0.99	0.37	0.07	59.4	54.5	
	32	0.00	0.00	0.09	0.54	1.43	3.02	5.58	9.08	12.5	14.7	14.9	12.9	9.37	5.69	2.98	1.37	0.51	0.11	94.7	90.7	
	24	0.00	0.00	0.16	0.73	1.91	4.15	7.94	12.9	17.1	19.6	20.0	17.8	13.3	7.95	4.01	1.76	0.64	0.15	130	127	
		0.00	0.00	0.19	0.84	2.24	4.93	9.47	15.1	19.7	22.9	23.7	21.2	16.2	9.79	4.86	2.07	0.74	0.18	154	151	
		0.00	0.00	0.22	0.91	2.43	5.40	10.3	16.2	21.0	24.7	25.7	22.9	17.4	10.5	5.17	2.18	0.77	0.19	166	163	
		0.00	0.01	0.24	0.94	2.48	5.45	10.4	16.2	21.0	24.6	25.2	22.1	16.5	9.75	4.75	2.00	0.70	0.17	162	159	
		0.00	0.00	0.18	0.78	2.08	4.54	8.66	14.1	18.6	21.5	22.0	19.4	14.3	8.43	4.16	1.79	0.64	0.15	141	138	
	-24	0.00	0.00	0.09	0.55	1.50	3.23	6.15	10.2	14.2	16.7	17.0	14.7	10.7	6.39	3.30	1.48	0.54	0.12	107	103	
	-32	0.00	0.00	0.03	0.33	0.99	2.15	4.03	6.58	9.27	11.1	11.3	9.77	7.10	4.37	2.37	1.11	0.42	0.08	71.0	66.5	
	-40	0.00	0.00	0.01	0.14	0.57	1.30	2.41	3.81	5.28	6.29	6.39	5.52	4.07	2.63	1.50	0.73	0.27	0.03	41.0	35.1	
	-48	0.00	0.00	0.00	0.03	0.24	0.67	1.27	1.98	2.64	3.08	3.11	2.73	2.09	1.43	0.84	0.40	0.11	0.00	20.6	9.20	
-56	0.00	0.00	0.00	0.00	0.01	0.16	0.40	0.69	0.97	1.18	1.25	1.18	0.99	0.72	0.42	0.18	0.03	0.00	8.19	0.00		
-64	0.00	0.00	0.00	0.00	0.00	0.02	0.05	0.14	0.27	0.37	0.43	0.41	0.33	0.23	0.12	0.04	0.01	0.00	2.42	0.00		
-72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.05	0.07	0.07	0.05	0.04	0.02	0.00	0.00	0.00	0.35	0.00		
	-72	-64	-56	-48	-40	-32	-24	-16	HORIZONTAL(DEG)				16	24	32	40	48	56	64	72		
Φ t	0.00	0.01	1.23	6.25	17.5	38.7	73.5	118	157	185	189	167	125	76.2	39.2	17.3	6.17	1.32	1219	---		
Φ a	0.00	0.00	0.00	0.00	6.86	31.6	67.7	112	152	180	185	162	119	70.8	33.0	8.78	0.00	0.00	---	1129		

one-half-peak spread: U:25.8,D:31.3 , L:28.7,R:23.9

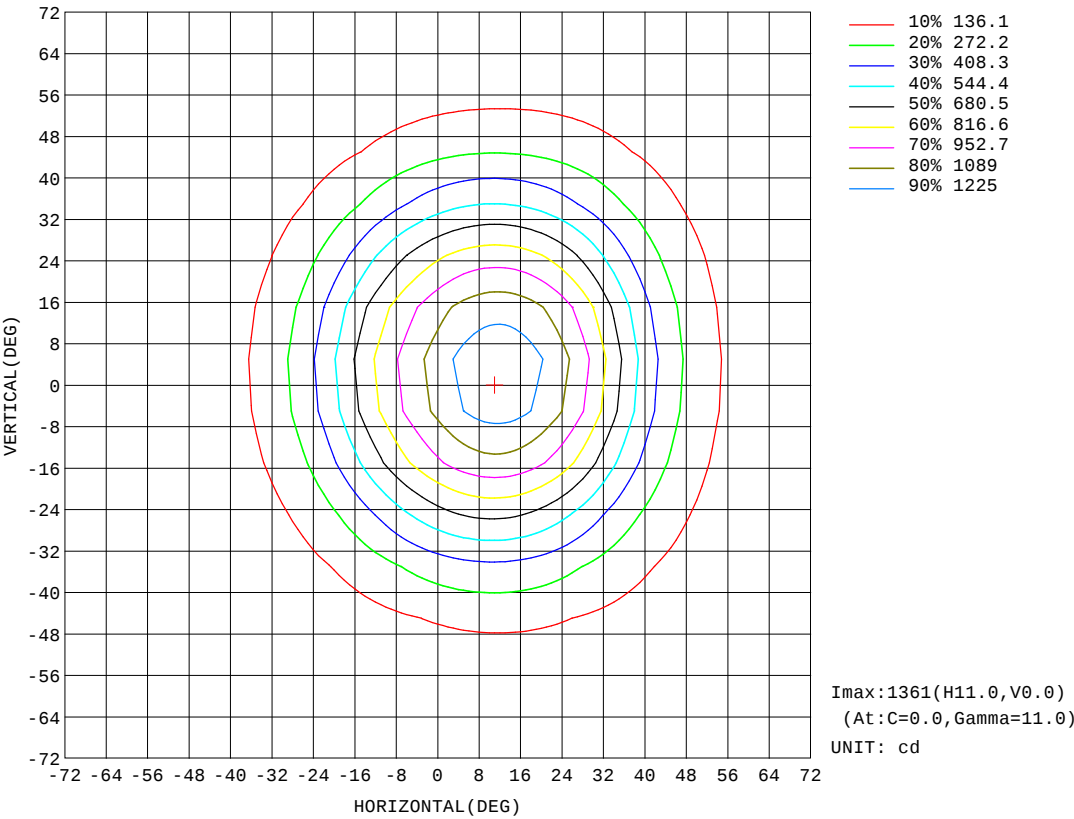
NEMA Beam Type: Type 5

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-06-07

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

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NAME: 8.02.019.0086 60°LLS-OP-W30B-L12-DIM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:20240600016
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

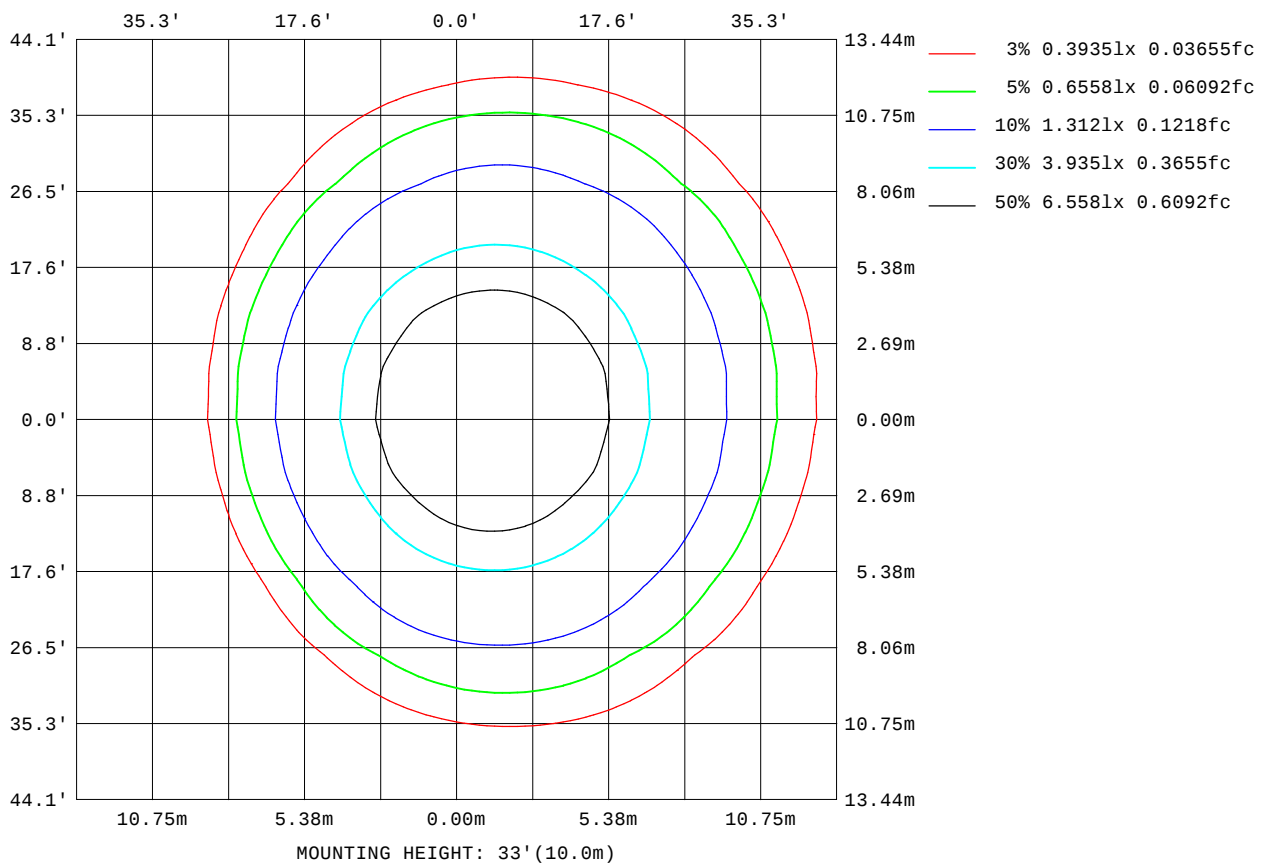


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V(B) Interval: 5.0DEG
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Remarks:

ISOLUX DIAGRAM

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DIM.:	SPEC.:	SERIAL No.:20240600016
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

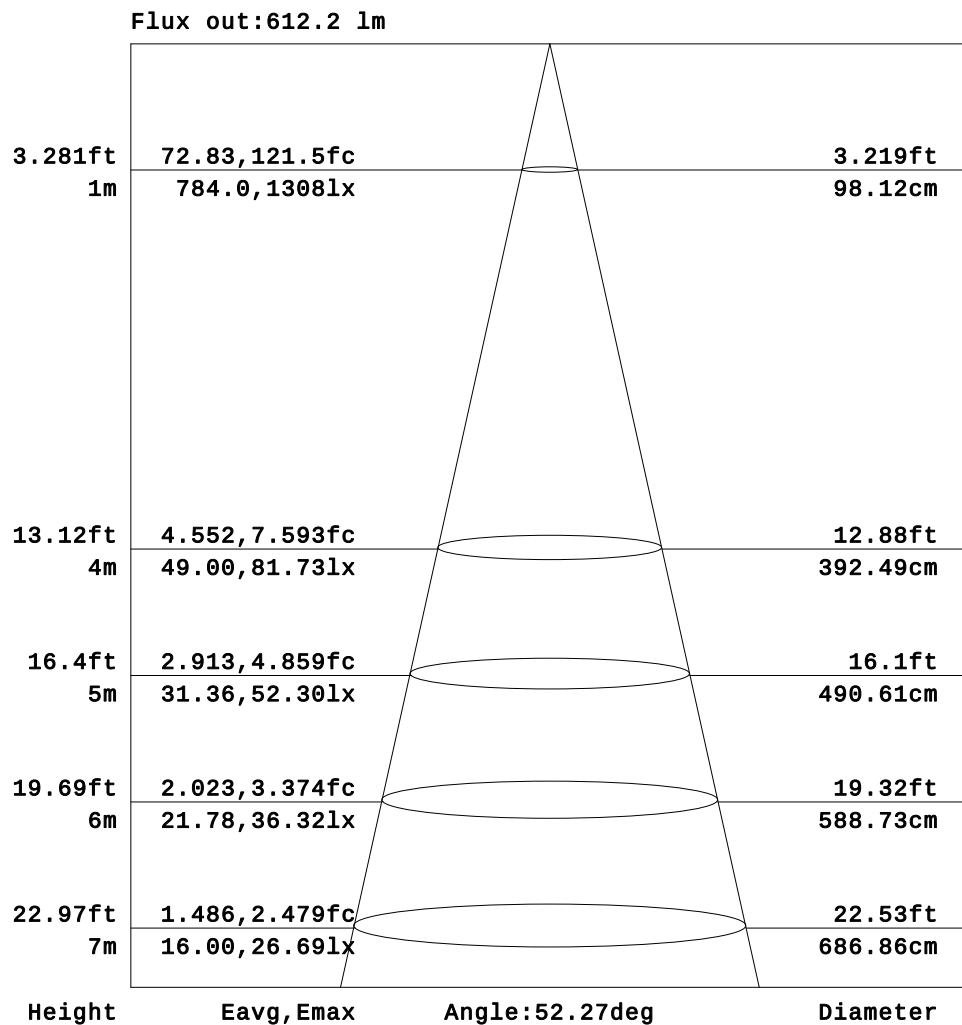


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H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-06-07

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

AAI Figure

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DIM.:	SPEC.:	SERIAL No.:20240600016
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

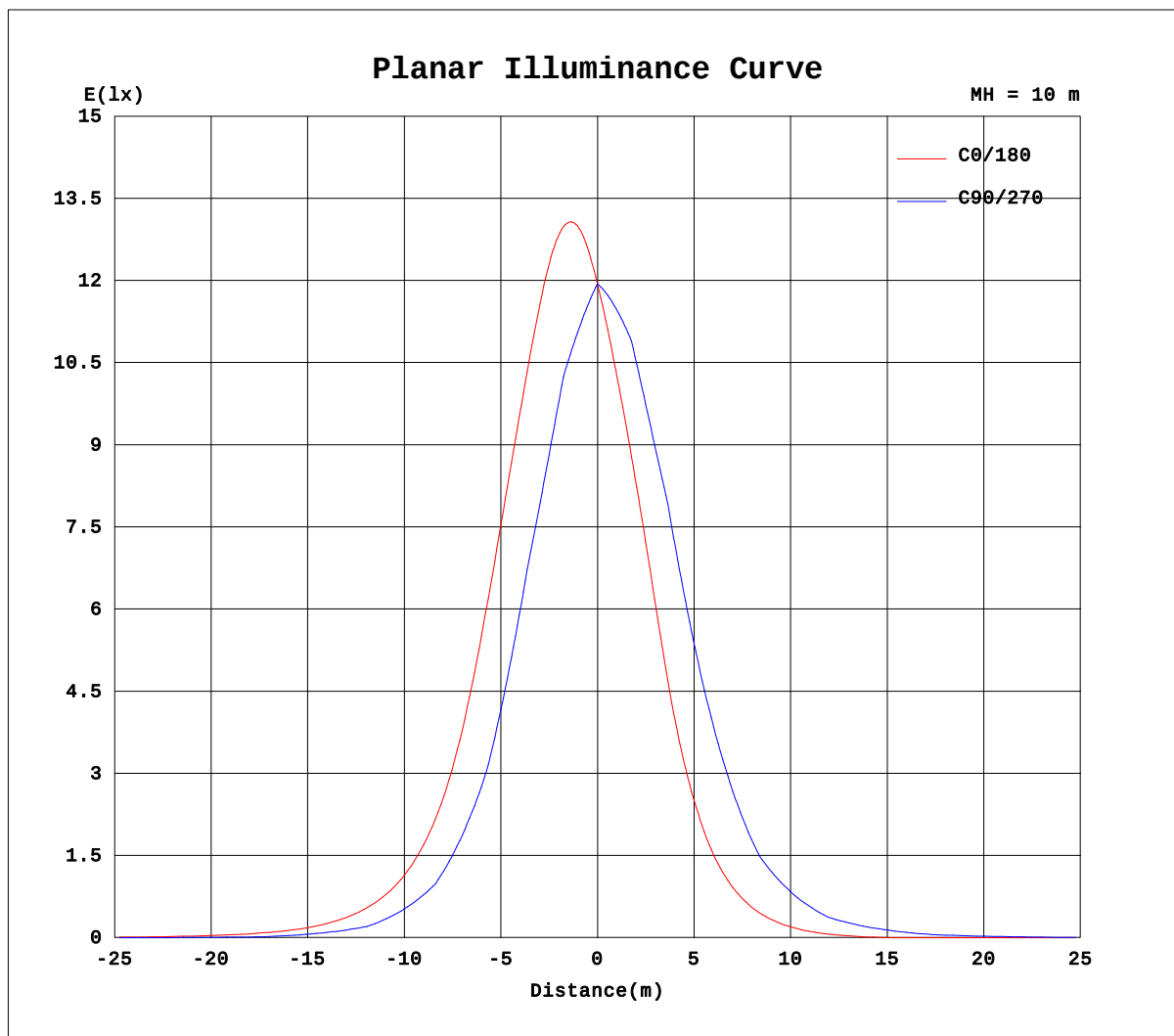


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

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DIM.:	SPEC.:	SERIAL No.:20240600016
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

Table--1										UNIT: cd									
H(°) \ V(°)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.36	3.87	6.17	8.15
-60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.71	8.72	13.2	17.0
-55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77	5.14	10.1	15.7	23.1	31.8	40.0	47.1
-50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.16	12.2	22.4	33.8	46.0	58.3	69.9	79.7
-45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	5.43	13.5	27.2	43.6	63.0	84.6	107	129	148
-40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.08	13.6	28.9	48.3	72.1	101	132	165	196	222
-35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59	7.64	22.1	42.1	67.9	101	142	189	242	293	337
-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.57	18.0	37.9	64.5	99.4	145	201	267	339	410	468
-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.37	23.1	46.7	79.2	123	181	259	350	452	549	630
-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77	14.9	36.4	67.0	109	168	246	350	473	605	725	819
-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.33	15.6	38.2	71.4	119	186	277	397	543	694	825	932
-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.48	23.9	51.5	92.1	152	236	350	500	674	839	973	1083
-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.05	21.9	49.1	89.6	149	235	353	508	688	857	998	1122
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.60	29.1	60.6	107	176	276	411	586	774	935	1076	1207
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.08	23.7	52.1	94.4	158	248	373	536	723	888	1027	1155
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.80	27.7	58.0	103	170	265	394	561	744	900	1031	1152
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.26	20.5	46.3	84.0	140	218	327	470	638	796	927	1038
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.53	21.9	47.6	84.1	136	210	312	444	599	749	870	964
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90	13.3	34.0	63.2	104	160	238	339	461	589	702	792
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	11.7	30.6	56.4	91.2	138	201	279	374	478	574	651
35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.41	18.6	38.6	65.2	99.9	145	202	270	346	420	483
40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	13.7	30.3	51.6	78.2	111	150	195	244	293	336
45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	5.42	16.1	31.9	51.5	75.1	103	135	170	204	236
50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	7.63	19.3	33.5	49.9	68.4	88.3	109	129	146
55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.79	8.38	16.5	27.9	40.9	54.8	69.3	83.2	95.5
60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.76	10.9	18.8	27.1	35.3	43.0	49.7
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.23	4.71	8.59	12.7	16.8	21.7	26.5
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.40	5.14
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90	2.31
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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DIM.:	SPEC.:	SERIAL No.:20240600016
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

Table--2																	UNIT: cd	
H(°) \ V(°)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-65	9.78	10.9	11.4	11.2	10.2	8.90	7.27	5.38	3.35	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-60	20.1	22.2	22.9	22.1	20.0	17.2	13.8	9.96	5.87	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-55	52.6	55.8	56.6	54.8	50.6	44.9	37.9	30.0	21.6	13.7	7.29	2.10	0.00	0.00	0.00	0.00	0.00	0.00
-50	86.7	90.2	90.0	86.1	79.2	69.9	59.0	46.7	34.2	22.7	12.7	2.35	0.00	0.00	0.00	0.00	0.00	0.00
-45	161	167	165	156	140	120	99.3	78.3	58.4	40.8	25.7	12.4	2.85	0.00	0.00	0.00	0.00	0.00
-40	239	245	238	220	193	162	131	102	75.2	52.4	33.3	17.5	3.28	0.00	0.00	0.00	0.00	0.00
-35	368	380	372	345	301	250	198	151	111	77.7	50.8	29.7	12.4	1.47	0.00	0.00	0.00	0.00
-30	505	516	498	454	390	317	245	184	132	91.2	59.1	34.4	15.8	0.77	0.00	0.00	0.00	0.00
-25	685	707	692	640	556	452	346	255	181	123	79.2	47.4	24.1	6.50	0.00	0.00	0.00	0.00
-20	880	899	871	797	684	544	408	293	203	135	85.1	49.8	24.7	7.04	0.00	0.00	0.00	0.00
-15	1012	1049	1033	965	852	697	526	376	258	170	107	63.6	33.4	12.4	0.17	0.00	0.00	0.00
-10	1166	1201	1177	1096	965	781	579	406	271	176	109	63.4	32.4	11.2	0.00	0.00	0.00	0.00
-5	1225	1278	1265	1187	1059	880	666	469	317	205	127	74.5	39.4	15.7	0.57	0.00	0.00	0.00
0	1314	1361	1331	1234	1090	897	668	465	310	198	120	69.2	35.4	12.7	0.01	0.00	0.00	0.00
5	1265	1323	1312	1231	1103	925	704	496	335	215	133	77.6	41.1	16.6	0.80	0.00	0.00	0.00
10	1249	1294	1271	1185	1053	869	651	455	305	194	119	68.9	35.4	12.8	0.00	0.00	0.00	0.00
15	1126	1171	1163	1096	982	817	622	442	301	196	122	72.0	38.1	15.0	0.40	0.00	0.00	0.00
20	1028	1055	1037	969	853	691	517	366	250	164	102	59.3	30.1	9.96	0.00	0.00	0.00	0.00
25	856	885	874	820	726	597	457	330	231	155	98.6	59.2	31.1	11.2	0.01	0.00	0.00	0.00
30	701	717	697	640	553	447	343	250	177	120	77.8	46.0	22.9	6.18	0.00	0.00	0.00	0.00
35	526	544	534	496	436	360	284	212	154	107	70.3	42.5	21.5	5.95	0.00	0.00	0.00	0.00
40	362	370	359	332	290	243	194	149	110	77.0	50.5	29.3	13.0	0.85	0.00	0.00	0.00	0.00
45	257	266	262	246	219	187	153	120	89.8	64.1	42.6	24.8	10.7	1.41	0.00	0.00	0.00	0.00
50	157	162	160	150	136	118	98.0	78.1	59.2	42.0	26.9	14.0	3.54	0.00	0.00	0.00	0.00	0.00
55	105	110	110	105	96.8	85.3	71.9	57.8	44.0	31.1	19.4	9.25	2.74	0.00	0.00	0.00	0.00	0.00
60	54.8	58.0	58.8	57.4	53.6	47.8	40.3	32.0	23.5	15.3	7.64	0.80	0.00	0.00	0.00	0.00	0.00	0.00
65	30.5	33.1	34.3	33.9	31.9	28.6	24.1	18.8	13.2	8.44	4.55	1.04	0.00	0.00	0.00	0.00	0.00	0.00
70	7.49	9.00	9.94	9.95	9.17	7.85	5.92	3.46	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	3.52	4.36	4.91	5.01	4.68	4.08	3.18	1.99	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-06-07

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks: